

AMENDMENTS TO THE CLAIMS

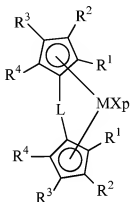
Claims 1 – 13: (Cancelled)

14. (currently amended) A propylene polymer composition comprising components:

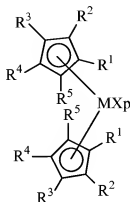
- a) from 50% to 90% by weight of a propylene homopolymer or a propylene copolymer containing up to 5% by mol of derived units of C₂-C₂₀ alpha-olefins, produced with a Ziegler Natta catalyst, comprising:
 - (i) a polydispersity index greater than 3.5;
 - (ii) a melt flow rate, as measured at 230°C under a load of 2.16 kg, greater than 1 dg/min;
 - (iii) a fraction soluble in xylene at 25°C greater than >1%; and
 - (iv) no detectable 2,1 regioerrors in a ¹³C NMR spectrum recorded at a 300 MHz instrument;
- b) from 5% to 25% by weight of a copolymer of ethylene and 1-octene comprising:
 - (i) a content of C₈ derived units from 10% to 30% by mol;
 - (ii) an intrinsic viscosity higher than 1.2 dL/g and lower than 6 dL/g;
 - (iii) a density ranging from 0.850 to 0.890 g/cm³; and
 - (iv) a crystallinity content, expressed as an enthalpy of fusion, lower than 62 J/g;
and
 - (v) a product of reactivity ratio r₁xr₂ lower than 5; and
- c) from 5% to 25% by weight of a copolymer of propylene and ethylene comprising:
 - (i) a content of propylene derived units higher than 50% by mol and lower than 92% by mol;
 - (ii) an intrinsic viscosity higher than 2 dL/g and lower than 6 dL/g;
 - (iii) a density ranging from 0.850 to 0.890 g/cm³;
 - (iv) a value of a product of reactivity ratios r₁xr₂ lower than 2; and
 - (v) a crystallinity content, expressed as an enthalpy of fusion, lower than 45 J/g,

wherein a weight ratio between component b) and the sum of component b) and component c) is equal to or higher than 0.5 and less than or equal to 0.9, and wherein ~~component c)~~

is components b) and c) are obtained by a process comprising at least one metallocene compound of formula (I) or (II):



(I)



(II)

wherein

M is a transition metal belonging to group 4, 5 or to the lanthanide or actinide groups of the Periodic Table of Elements;

X, equal to or different from each other, are monoanionic sigma ligands selected from the group consisting of hydrogen, halogen, R^6 , OR^6 , $OCOR^6$, SR^6 , NR^6_2 and PR^6_2 , or two X can optionally form a substituted or unsubstituted butadienyl radical or a $OR'O$ group;

R' is a divalent radical selected from C_1 - C_{20} alkylidene, C_6 - C_{40} arylidene, C_7 - C_{40} alkylarylidene and C_7 - C_{40} arylalkylidene radicals;

R^6 is a linear or branched, saturated or unsaturated C_1 - C_{20} alkyl, C_3 - C_{20} cycloalkyl, C_6 - C_{20} aryl, C_7 - C_{20} alkylaryl or C_7 - C_{20} arylalkyl group, and optionally comprise at least one Si or Ge atom;

p is an integer equal to the oxidation state of M minus 2;

L is a divalent bridging group selected from C_1 - C_{20} alkylidene, C_3 - C_{20} cycloalkylidene, C_6 -

C₂₀ arylidene, C₇-C₂₀ alkylarylidene, or C₇-C₂₀ arylalkylidene radicals optionally comprising at least one heteroatom belonging to groups 13-17 of the Periodic Table of Elements, and silylidene radicals comprising up to 5 silicon atoms such as SiMe₂, SiPh₂; and

R¹, R², R³, R⁴ and R⁵, equal to or different from each other, are hydrogen, halogen, or linear or branched, saturated or unsaturated C₁-C₂₀-alkyl, C₃-C₂₀-cycloalkyl, C₆-C₂₀-aryl, C₇-C₂₀-alkylaryl, or C₇-C₂₀-arylalkyl radicals, optionally comprising at least one heteroatom belonging to groups 13-17 of the Periodic Table of Elements; or two adjacent R¹, R², R³, R⁴ and R⁵ form at least one substituted or unsubstituted 3-7 membered ring optionally comprising at least one heteroatom belonging to groups 13-17 of the Periodic Table of Elements, the substituted or unsubstituted 3-7 membered ring forming with the cyclopentadienyl moiety radicals selected from indenyl; mono-, di-, tri- and tetra-methyl indenyl; 2-methyl-4-(4'-tert-butylphenyl)indenyl; 2-isopropyl-4-(4'-tert-butylphenyl)indenyl; 2-methyl indenyl; 3-t-butyl-indenyl; 2-isopropyl-4-phenyl indenyl; 2-methyl-4-phenyl indenyl; 2-methyl-4,5 benzo indenyl; 3-trimethylsilyl-indenyl; 4,5,6,7-tetrahydroindenyl; fluorenyl; 5,10-dihydroindeno[1,2-b]indol-10-yl; N-methyl- or N-phenyl-5,10-dihydroindeno [1,2-b]indol-10-yl; 5,6-dihydroindeno[2,1-b]indol-6-yl; N-methyl- or N-phenyl-5,6-dihydroindeno[2,1-b]indol-6-yl; azapentalene-4-yl; thiapentalene-4-yl; azapentalene-6-yl; thiapentalene-6-yl; mono-, di- and tri-methyl-azapentalene-4-yl; or 2,5-dimethyl-cyclopenta[1,2-b:4,3-b']-dithiophene.

15. (Canceled).

16. (Canceled)

17. (Previously Presented) The propylene polymer composition according to claim 14, wherein component a) ranges from 50% to 80% by weight, component b) ranges from 25% to 9% by weight, and component c) ranges from 25% to 11% by weight.

18. (Canceled).

19. (Previously Presented) The propylene polymer composition according to claim 14, wherein the intrinsic viscosity of component b) is higher than 1.25 dL/g and lower than 3.0 dL/g.

20. (Previously Presented) The propylene polymer composition according to claim 14, wherein the enthalpy of fusion of component b) is lower than 50 J/g.

21. (Canceled)

22. (Previously Presented) The propylene polymer composition according to claim 14, wherein component c) comprises from 50% to 80% by mol of propylene derived units, and from 50% to 20% by mol of ethylene derived units.

23. (Previously Presented) The propylene polymer composition according to claim 14, wherein the intrinsic viscosity of component c) is preferably higher than 2 dL/g and lower than 4 dL/g.

24. (Previously Presented) The propylene polymer composition according to claim 14, wherein the value of a product of reactivity ratios $r_1 \times r_2$ of component c) is lower than 1.8.

25. (Previously Presented) The propylene polymer composition according to claim 14, wherein the enthalpy of fusion of component c) is lower than 35 J/g.

26. (Canceled)

27. (Canceled)

28. (Canceled)

29. (Previously Presented) The propylene polymer composition according to claim 14, wherein the polydispersity index of component a) is greater than 4.

30. (Previously Presented) The propylene polymer composition according to claim 14, wherein the at least one metallocene compound is rac-dimethylsilanediyl(2-methyl-4-(4'-tert-butylphenyl)indenyl)(2-isopropyl-4-(4'-tert-butylphenyl)indenyl)zirconium dichloride.